

SWMU 3 Supplemental Sampling Program Summary

Restoration Advisory Board (RAB) Meeting

Deseret Chemical Depot
July 15, 2008



US Army Corps
of Engineers®



PARSONS

Presentation Outline

- SWMU 3 - Site Description and History
 - Corrective Action Program Summary at SWMU 3
 - Supplemental Investigation
 - Scope of Work
 - Field Sampling Program and Special Considerations
 - Laboratory Testing Program
 - Corrective Action Options
-

Site Location

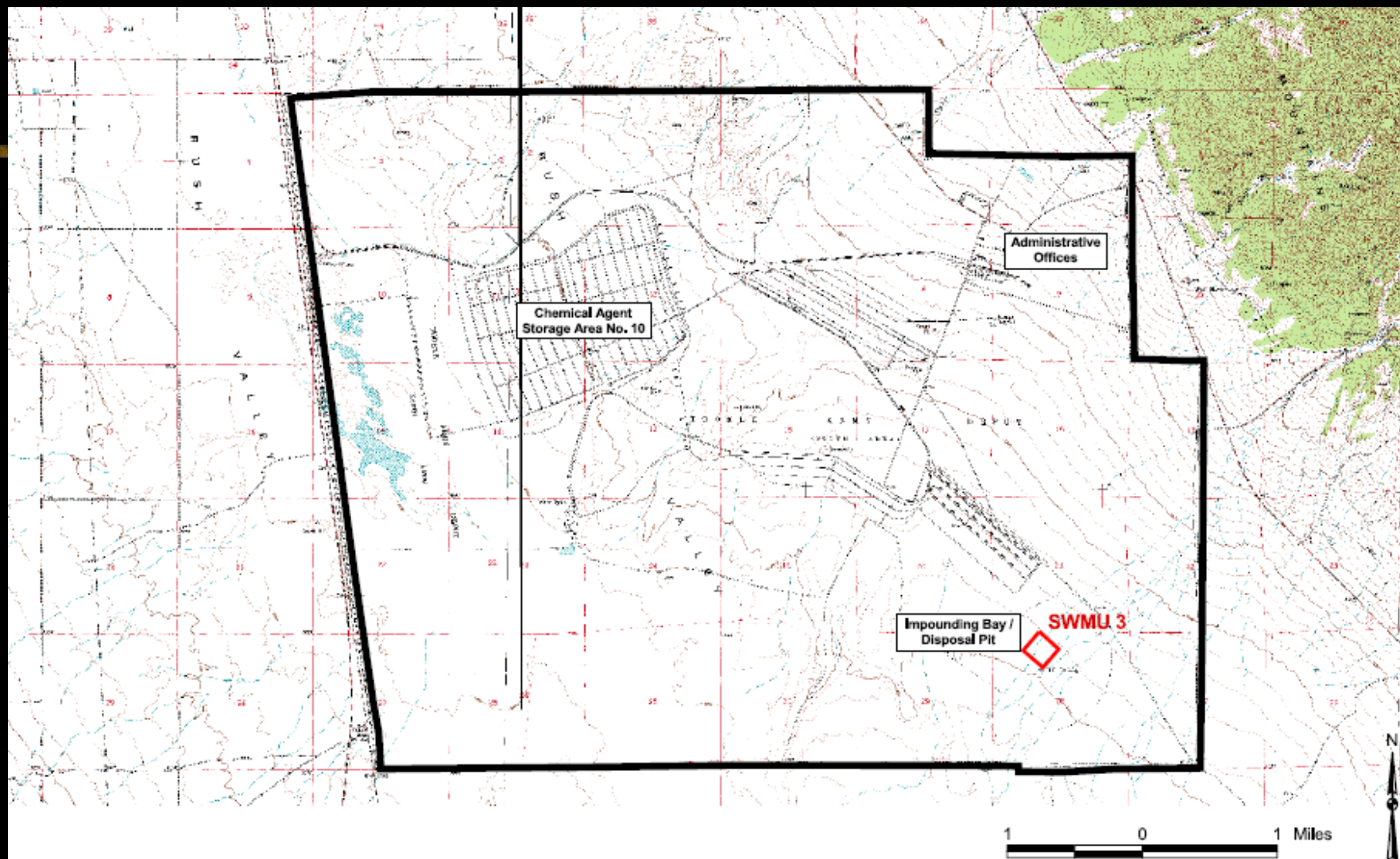


FIGURE 1.2

SWMU-3
SITE LOCATION

DESERET CHEMICAL DEPOT

Site Description

“Impounding Bay/Disposal Pit”

SWMU 3 Consists of:

- *Gravel Pad,*
- *Wood and Sheet Metal Shed,*
- *Stacks of Steel Grating and*
- *Disposal Pit.*

Shed and Grating



Metal Shed

Steel Grating



Disposal Pit



Before Debris Removal

After Debris Removal (2004)



Corrective Action Program Summary

- *Phase I RFI (Ebasco, 1991-1993)*
- *Phase II RFI (Foster Wheeler, 1993-1999)*
- *Corrective Measures Study (Foster Wheeler, 1999)*
- *Debris and Grating Removal (DCD, 2002-2005)*
- *CMS Implementation (Parsons, 2003-Present)*

Notes:

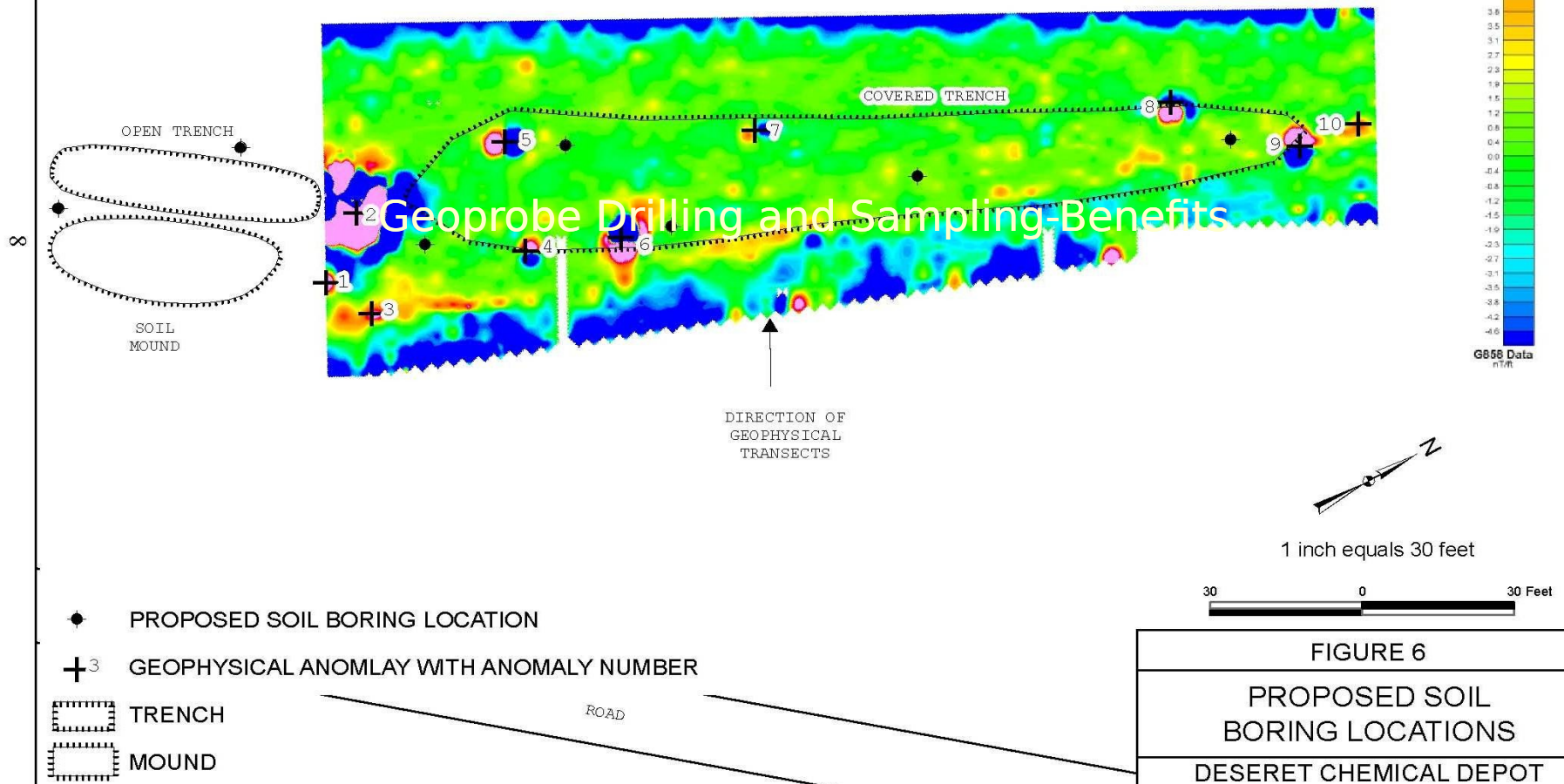
RFI means RCRA Facility Investigation

CMS means Corrective Measures Study

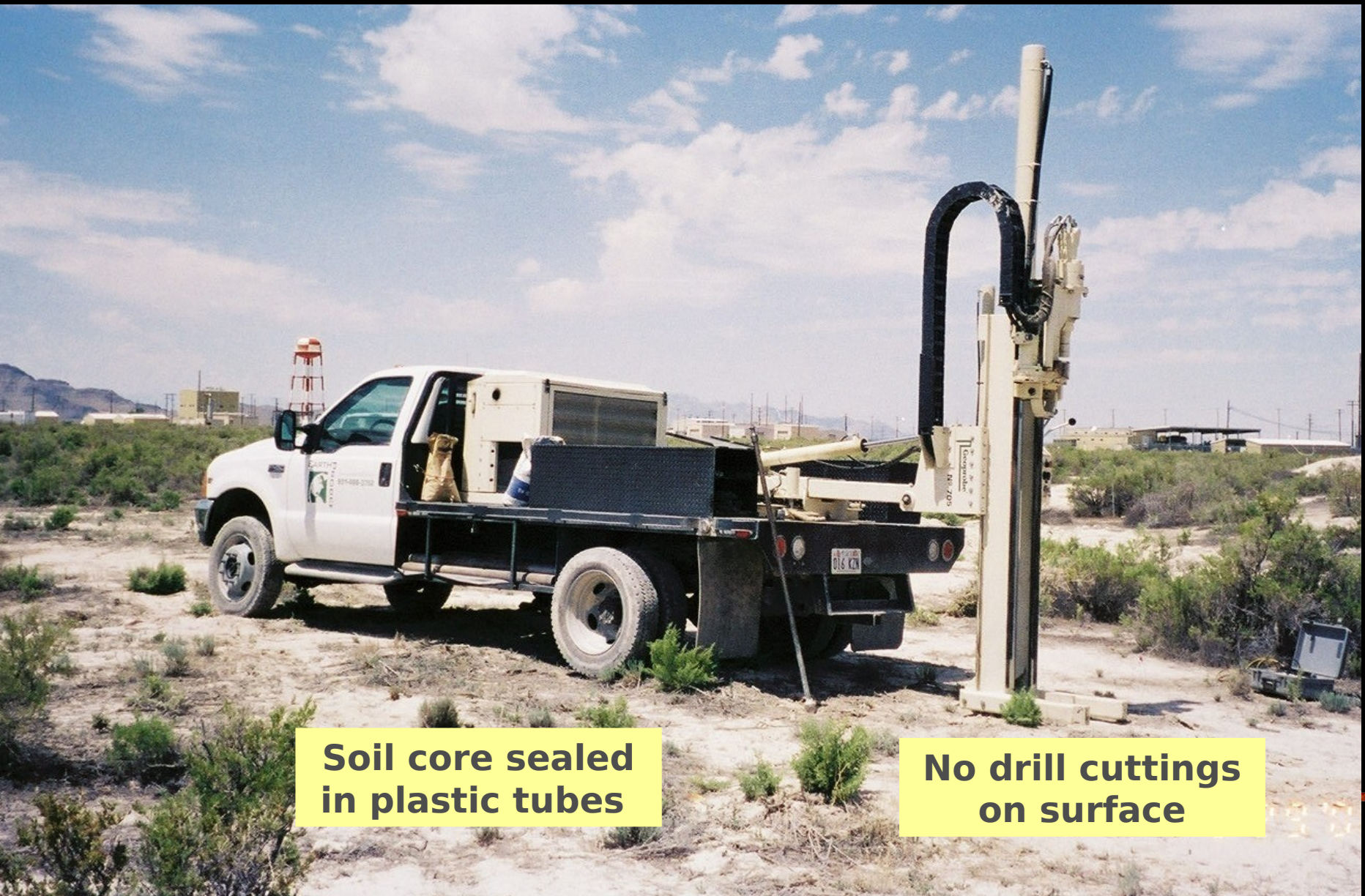
Supplemental Soil Sampling SOW

- *Work Plan, and Site Safety and Health Plan*
- *Geophysical Survey*
- *Seven Borings to Native Soil or 20-feet*
- *Up to 28 Soil Samples*
- *Analytical Program*
- *Containerize Soil, Water and PPE waste*

Geophysical Survey Results and Boring Locations



Geoprobe Drilling and Sampling- Benefits



**Soil core sealed
in plastic tubes**

**No drill cuttings
on surface**

Sample Handling and Logging

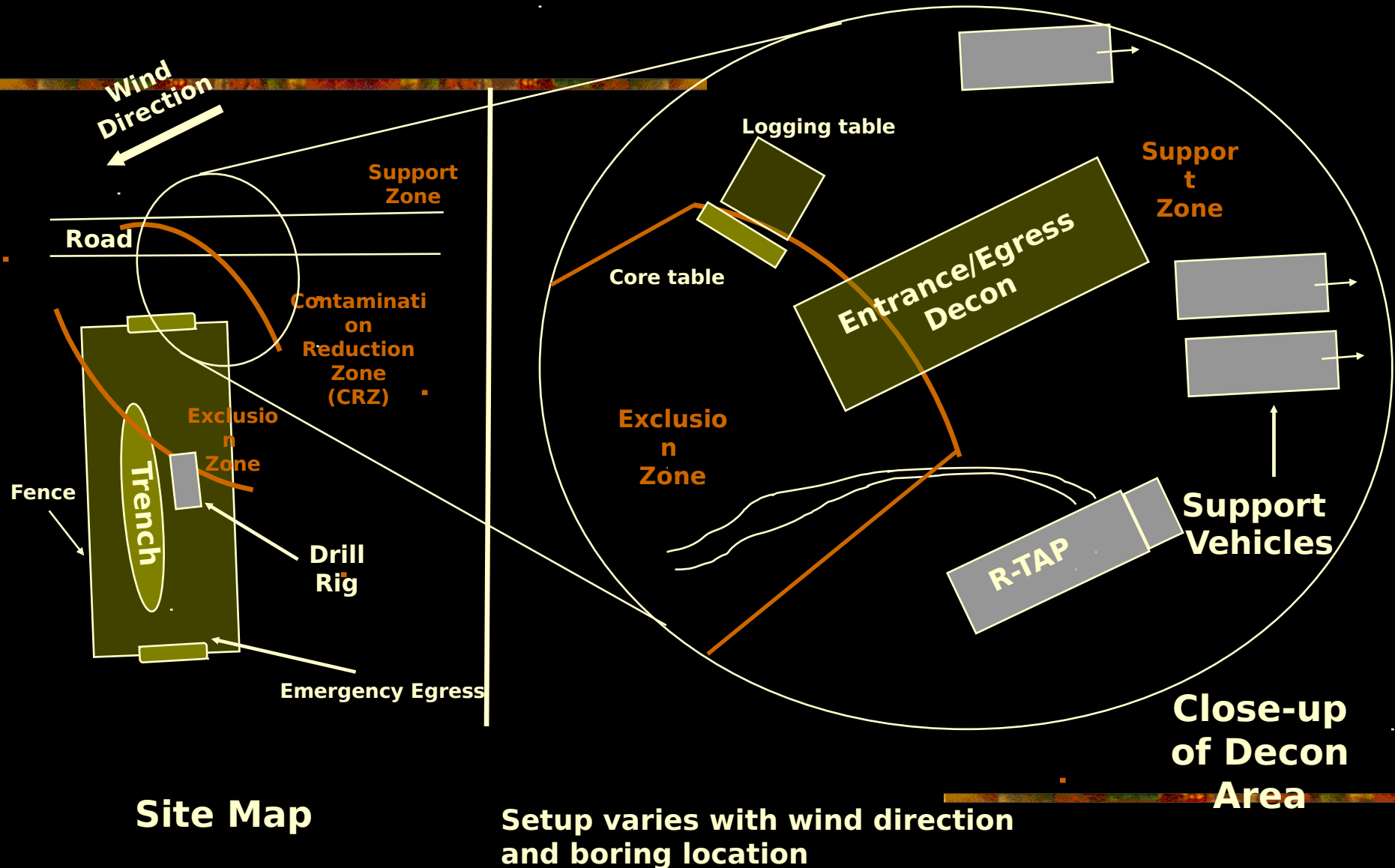


co
approximately: 62.5 cm^3 or 2.2 fl. oz

Special Considerations

- *Table Top and Pre-Operation Meetings*
- *Work Zones*
- *UXO Clearance (surface and down-hole)*
- *PPE in Exclusion Zone*
- *Decontamination Corridor*
- *Continuous Air Monitoring w/ R-TAP*

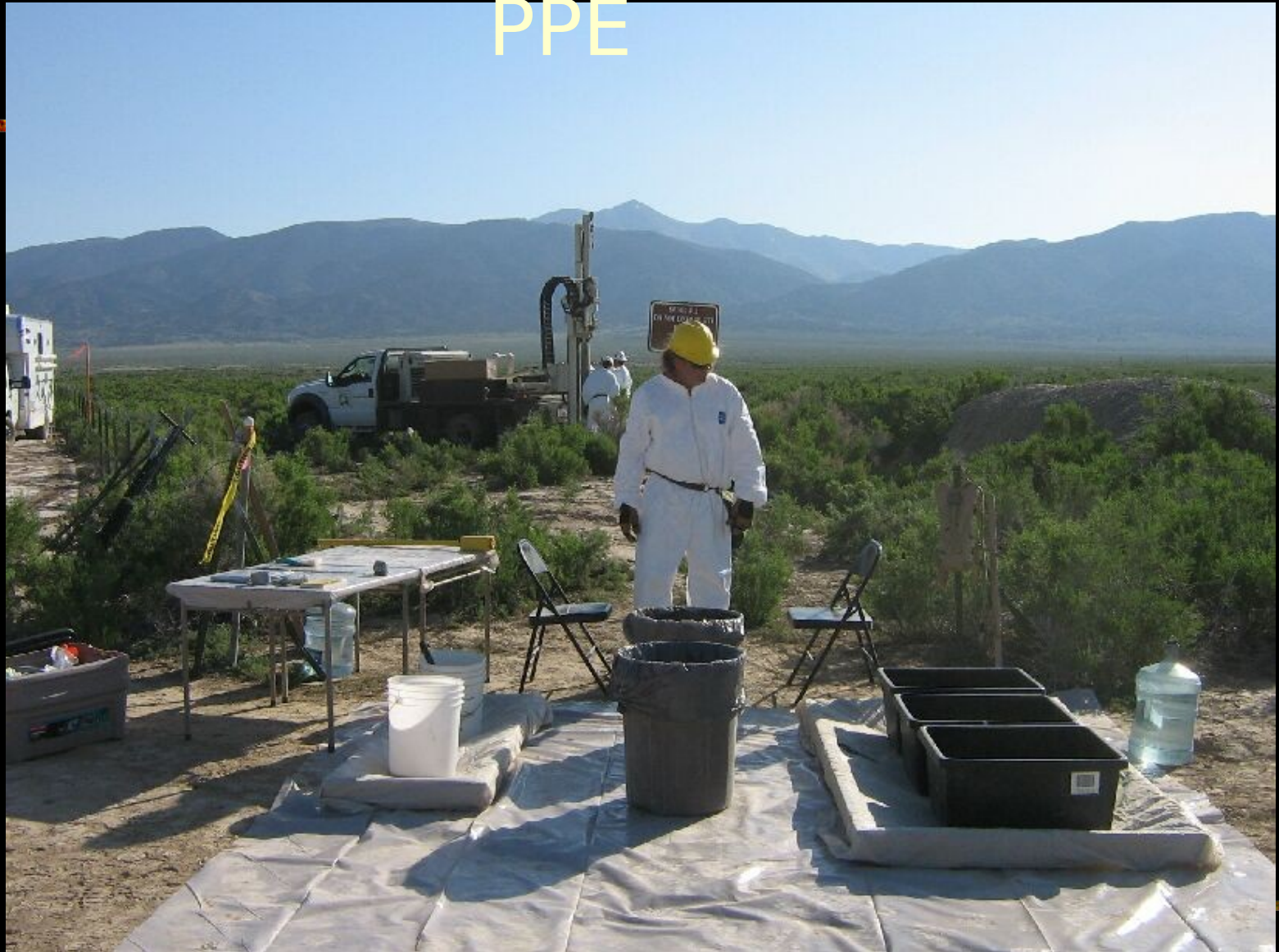
Work Zone Configuration



Decontamination Corridor and



Decontamination Corridor and PPE



R-TAP Monitoring



Laboratory Testing Program

- *West Desert Test Center-*

Chemical Warfare Agents (CWAs)

- *GPL Laboratories*

*Agent Breakdown Products (ABPs), Volatile Organic Compounds (VOCs), and Metals
(added to the program later)*

Corrective Action Options

(determination based on sampling results)

- *Original Plan-Capping with wastes in place*

(Will require continued groundwater monitoring, cap inspection, and reporting)

- *Backfill open trench – If no chemicals above background but metallic debris remains*

(Will require continued groundwater monitoring and reporting)

- *Excavate metallic anomalies, and backfill open trench*

(Clean closure, obtain a, “no further

SWMU 3

Post Supplemental Investigation View



Questions?